Hamilton City Flood Damage Reduction and Ecosystem Restoration, California

Feasibility Study Public Workshop to Review and Comment Tentatively Recommended Plan

Hamilton City, California

May 6, 2004







Overview

Purpose

- Provide a summary of key information from previous workshops
- Review tentatively recommended plan
- Provide opportunity for comments

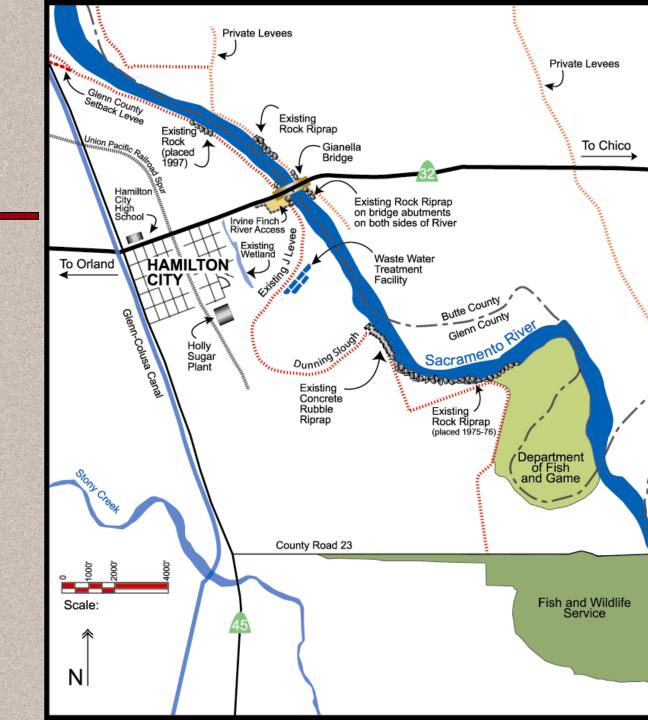


Previous Workshops

- Study Area
- Objectives
- Single Purpose vs. Combined Plans
- Development of Alternative Plans



Study Area

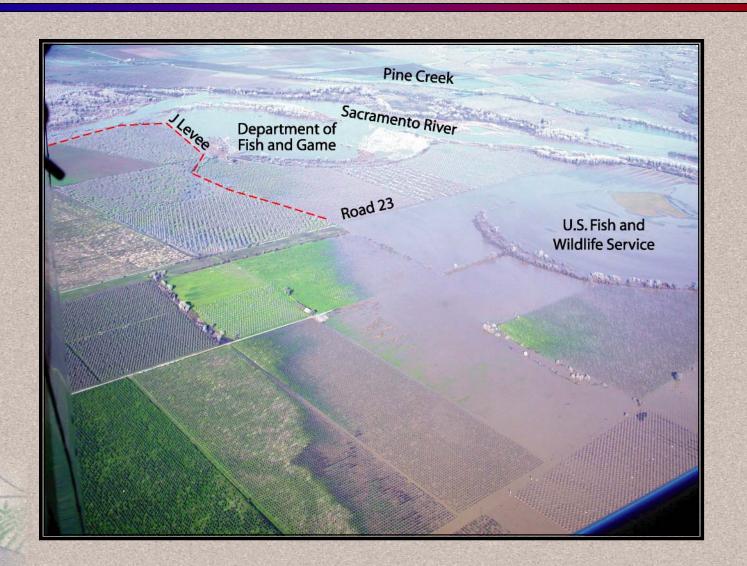


Summary of Objectives

- Flooding
 - Reduce Flood Risk
 - Reduce Flood Damages
- Ecosystem
 - Improve Quantity and Quality of Habitat
 - Restore River Function



Recent Flooding February 2004



Single Purpose vs. Combined Purpose Projects

Flood Damage Reduction Only

Benefit - \$

Cost - \$

Ecosystem Restoration Only

Benefit - habitat

Cost - \$

Flood Damage Reduction and Ecosystem Restoration



- Cost savings over two single purpose only plans
- Only way to provide economically justified flood damage reduction

Alternative Plans

- No Action
- Six Action Alternatives
- Defined by Significant Characteristics
 - Length of Levee
 - Habitat Quality and Quantity
 - Costs
 - Flood Damages
 - Flood Risk

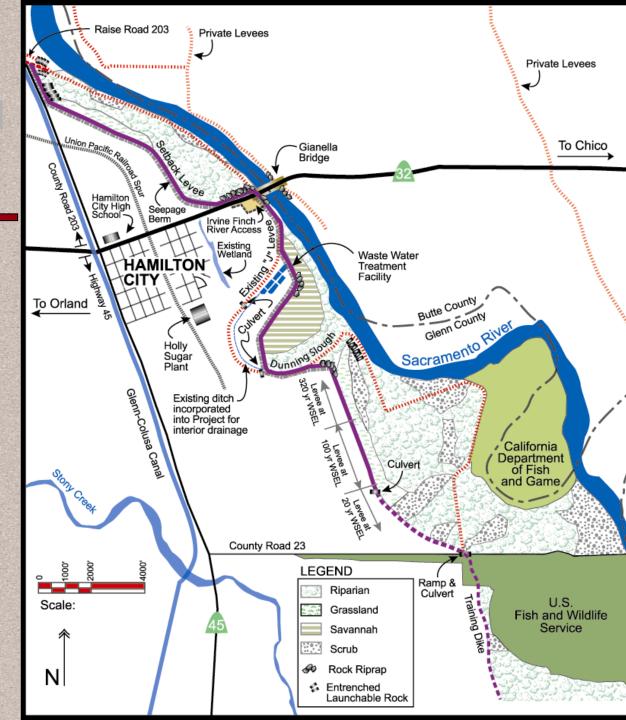


Summary of Benefits and Cost for Alternative Plans

Combined Alternatives	Average Annual Habitat Units	Flood Damage Reduction Benefits (\$1,000)	Total Annual Costs (\$1,000)	Remaining Annual Costs (\$1,000)	Cost Effective
Alternative 1	783	583	2,547	1,964	Yes
Alternative 2	795	437	2,878	2,441	No
Alternative 3	895	428	3,483	3,055	No
Alternative 4	642	446	2,441	1,995	No
Alternative 5	937	575	2,980	2,405	Yes
Alternative 6	888	584	2,623	2,039	Yes

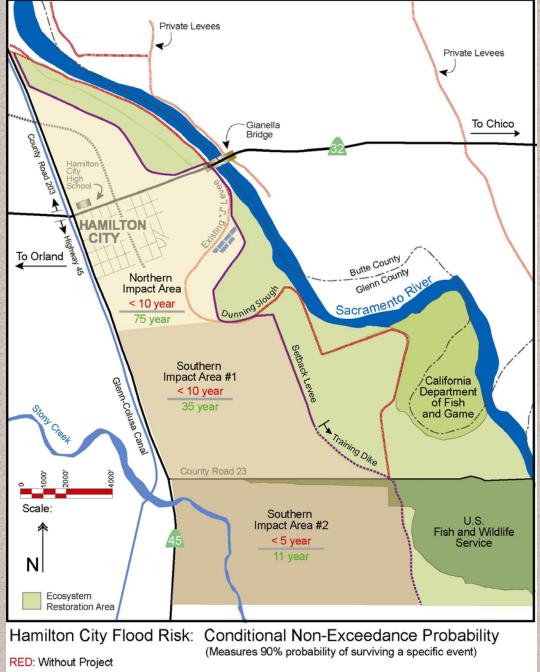
Tentatively Recommended Plan

- Remove "J" Levee
- Construct 6.8 miles of setback levee
- Provides up to 90% confidence of passing a 75-yr event
- Restore 1,476 acres of native habitat
 communities



Flood Damage Reduction Benefits:

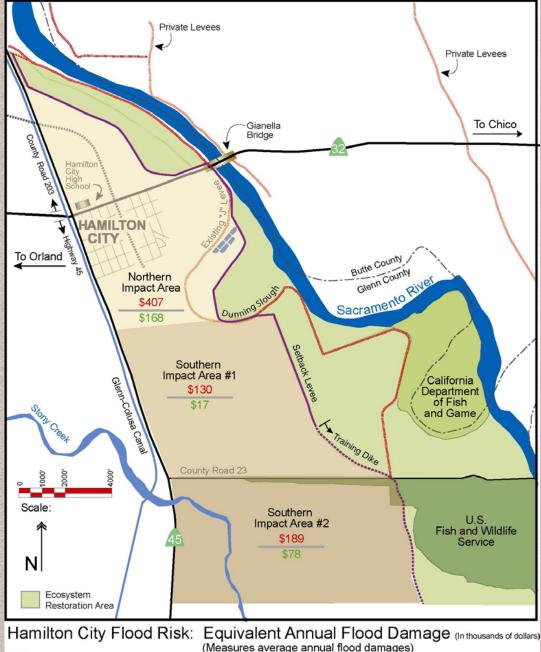
•Reduced Flood Risks to Hamilton City and agriculture



GREEN: With Tentatively Recommended Plan

Flood Damage Reduction **Benefits: Annual Flood Damage** (Thousands of Dollars)

 Reduced Flood Damages to Hamilton City and agriculture



RED: Without Project

GREEN: With Tentatively Recommended Plan

Ecosystem Benefits

• Restore 1,476 Acres of Native Habitat

Habitat Community Type	Without-Project (Acres)	With-Project (Acres)	Restored Habitat (Acres)
Riparian	97	1,094	997
Grassland	85	155	70
Savannah	0.0	148	148
Scrub	0.0	261	261
Total			1,476

• Reestablishes Natural Hydrologic Connection of River and Floodplain

Project Cost

Project Purpose	Federal	Non-Federal	Total
Ecosystem Restoration	\$25,520,000	\$13,741,000	\$39,261,000
Flood Damage Reduction	\$2,853,000	\$1,536,000	\$4,389,000
Cultural Resource Preservation	\$170,000		\$170,000
Totals	\$28,543,000	\$15,277,000	\$43,820,000

Non-Federal (State and Locals)		
Total	\$15,277,000	
Lands, Easements, Right of Ways, Relocations and Disposal/Borrow Areas (LERRD's)	\$13,388,000	
Cash	\$1,889,000	

Project Schedule

45-day Public/Agency Review of Draft Feasibility Report/EIS/EIR	April 9, 2004 – May 24, 2004
Public/Agency Workshop on Tentatively Recommended Plan	May 6, 2004
Reclamation Board Presentation on Tentatively Recommended Plan	May 24, 2004
Reclamation Board Scheduled Public Hearing and Vote	July 16, 2004
Report to Corps' South Pacific Division	August 2004
Corps' South Pacific Division Engineers Notice	September 2004
Potential Water Resources Development Act 2004	October 2004
Corps' Chief of Engineers Report	December 2004
Cost Sharing Agreements for Design	As early as September 2004
Preconstruction Engineering and Design Phase	As early as September 2004 - 2006
Cost Sharing Agreements for Construction	2006
Initiate Construction	2006
Complete Physical Construction	2008
Complete Plant Establishment Period	2010
Complete Monitoring	2013



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Electronic copies of the report can be viewed at www.compstudy.org/hamilton.html



